

REMARKS

Applicants thank the Examiner for the thorough consideration given the present application. Claims 1-6 are currently being prosecuted. The Examiner is respectfully requested to reconsider his rejection in view of the amendments and remarks as set forth below.

Drawings

The Examiner objected to the drawings as not designated by a legend such as --Prior Art--. By way of the present Amendment, Applicants are submitted correct Figure 1 to add a legend --Prior Art--. Withdrawal of the objection to the drawings is requested.

Specification

As suggested by the Examiner, the title of the invention is changed into "An apparatus for power controlling in a transmitter" for clearly indicating the invention to which the claims are directed. Any objection to the specification or title should now be withdrawn.

Abstract of the Disclosure

The Examiner objected to the Abstract of the Disclosure. By way of the present amendment, the words "is proposed" have been

removed from the first sentence as suggested by the Examiner. Accordingly, this rejection is believed to be overcome and should be withdrawn.

Allowable Subject Matter

It is gratefully acknowledged that the Examiner considers the subject matter of claims 2-3 as being allowable if rewritten in independent form. Claim 2 has been rewritten in independent form. Accordingly, claims 2-3 are now in condition for allowance.

Claim Rejections - 35 U.S.C. § 102

Claim 1 is rejected under 35 U.S.C. § 102(a) as being anticipated by the admitted prior art. This rejection is respectfully traversed.

The Examiner points out that the admitted prior art (figure 1) discloses a power controller for receiving emission signals and outputting to an antenna 190, comprising:

a plurality of stage amplifiers (110, 120, 130) for receiving the emission signals and amplifying the power thereof (specification in description of related art section; page 1, lines 14-23);

a plurality of matching circuits (140, 141, 142) connected between the stage amplifiers (110, 120, and 130) for matching

with the stage amplifiers, respectively (specification in description of related art section; page 1, lines 10-23);

at least one power detector 170 for detecting the power of the stage amplifiers and generating detection signals, respectively (specification in description of related art section; page 2, lines 1-4); and

a bias control circuit (150, 151) for receiving the detection signals of the at least one power detector 170, thereby generating a bias (APC1, APC2) of each of the stage amplifiers in order to optimize the efficiency of each of the stage amplifiers according to the magnitude of the power of each of the stage amplifiers (page 1, lines 19 - page 2, line 18).

It is noted that the admitted prior art (figure 1) uses a power coupler 180 to couple the power controller 100 and an antenna 190. Therefore, the power detector 170 of the admitted prior art is used for detecting the power of the power coupler 180, not the power of the stage amplifiers. Furthermore, since the power of the output signal of the power controller 100 is relatively high, the power loss after the output signal passed through the power coupler 180 is also relatively high. Thus, a lot of energy may be wasted. Furthermore, since the output power at the last stage is close to the saturated region, it is difficult for the power coupler to correctly detect and control

the magnitude of the power. On the other hand, there may be a problem of impedance mismatching caused by the high power loss.

However, the power controller of the present invention employs at least one detector for detecting the power of the at least one stage amplifier. Therefore, the power coupler can be omitted in the power controller of the present invention to overcome the problems caused by the power coupler in the prior art. Accordingly, Applicants submit that claim 1 is allowable.

Conclusion

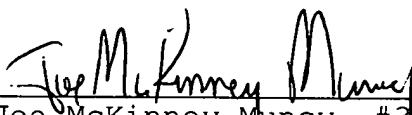
In view of the above remarks, it is believed that all of the claims clearly distinguish over the utilized prior art relied on by the Examiner either alone or in combination. In view of this, reconsideration of the rejections and allowance of all the claims is respectfully requested.

In the event that any outstanding matters remain in this application, the Examiner is invited to contact the undersigned at (703) 205-8000 in the Washington, D.C. area.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17.

Respectfully submitted,

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Attachments: Abstract of the Disclosure
Replacement Drawing Sheet